(1) Action

Forming non-reducing saccharides having a trehalose structure as an end unit and having a degree of glucose polymerization of at least 3 from reducing amylaceous saccharides having a degree of glucose polymerization of at least 3;

Sup HI

- (2) Molecular weight

 About 69,000 79,000 daltons on sodium dodecyl

 sulfate polyacrylamide gel electrophoresis (SDS-PAGE);
- (3) Isoelectric point (pI)

 About 5.4-6.4 on isoelectrophoresis;
- (4) Thermostability

 Substantially not inactivated even when incubated in an aqueous solution (pH 7.0) at 85°C for 60 min.; and
- Having an amino acid sequence of at least two contiguous amino acid residues in SEQ ID NO:3 and/or SEQ ID NO:4 and being encoded by a chromosomal DNA which hybridizes to a probe having the nucleotide sequence of 5'-AAYYTNTGGTAYTTYA ARGA-3' (SEQ ID NO:7) and a probe having the nucleotide sequence of 5'-GARGARTGGCAYWSNATHAT-3' (SEQ ID NO:8).

ST.